

FIG. 1

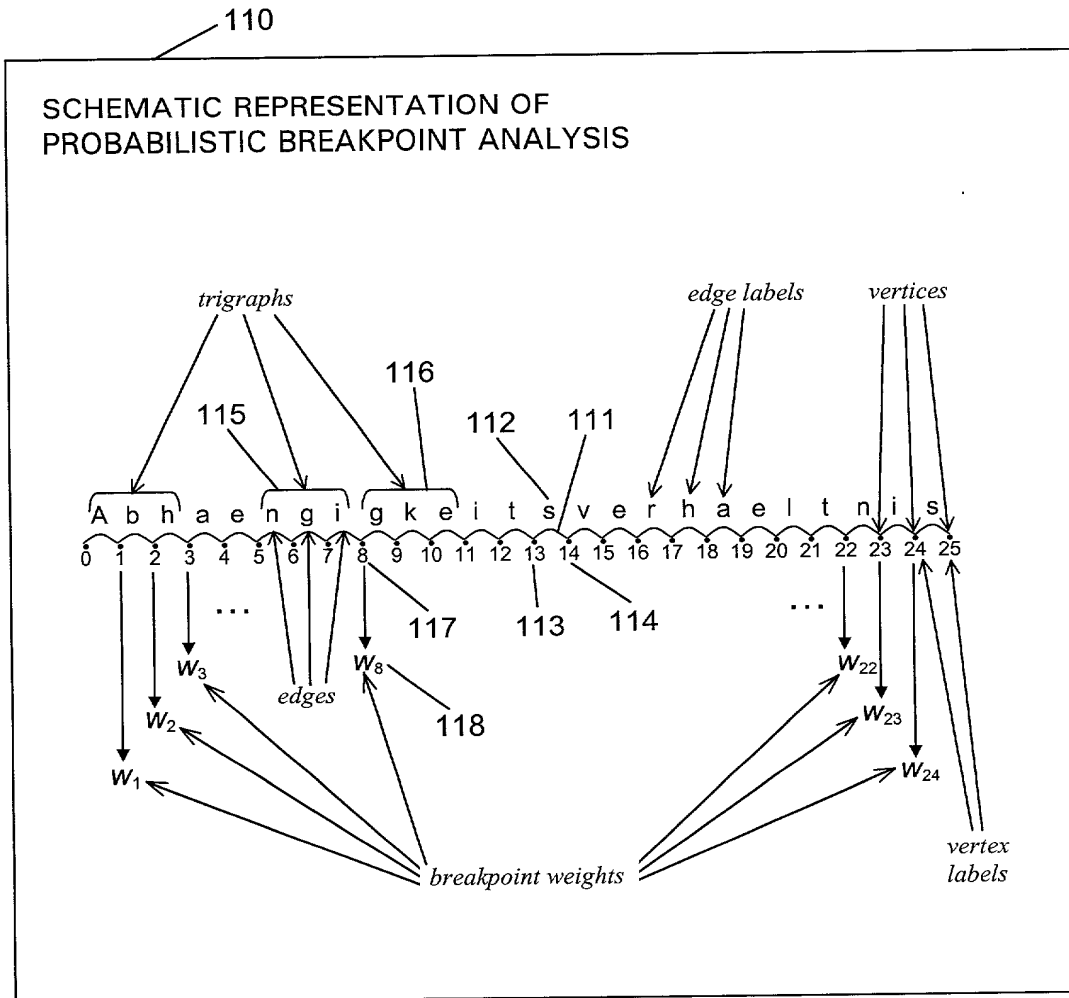


FIG. 2

ANALYZING: Abhaengigkeitsverhaeltnis

3:	Abh+aen	END = 0	START = 103	TOTAL = 103	9
4:	bha+eng	END = 3	START = 380	TOTAL = 383	6
5:	hae+ngi	END = 2	START = 0	TOTAL = 2	18
6:	aen+gig	END = 30	START = 49	TOTAL = 79	10
7:	eng+igk	END = 15	START = 0	TOTAL = 15	14
8:	ngi+gke	END = 3	START = 0	TOTAL = 3	17
9:	gig+kei	END = 70	START = 219	TOTAL = 289	7
10:	igk+eit	END = 2	START = 104	TOTAL = 106	8
11:	gke+its	END = 0	START = 0	TOTAL = 0	20
12:	kei+tsv	END = 13	START = 0	TOTAL = 13	15
13:	eit+sve	END = 3005	START = 12	TOTAL = 3017	2
14:	its+ver	END = 123	START = 31722	TOTAL = 31845	1
15:	tsv+erh	END = 0	START = 633	TOTAL = 663	5
16:	sve+rha	END = 0	START = 7	TOTAL = 7	16
17:	ver+hae	END = 301	START = 733	TOTAL = 1034	4
18:	erh+ael	END = 1	START = 45	TOTAL = 46	12
19:	rha+elt	END = 5	START = 70	TOTAL = 75	11
20:	hae+ltn	END = 2	START = 0	TOTAL = 2	19
21:	ael+tni	END = 17	START = 0	TOTAL = 17	13
22:	elt+nis	END = 1915	START = 50	TOTAL = 1965	3

FIG. 3

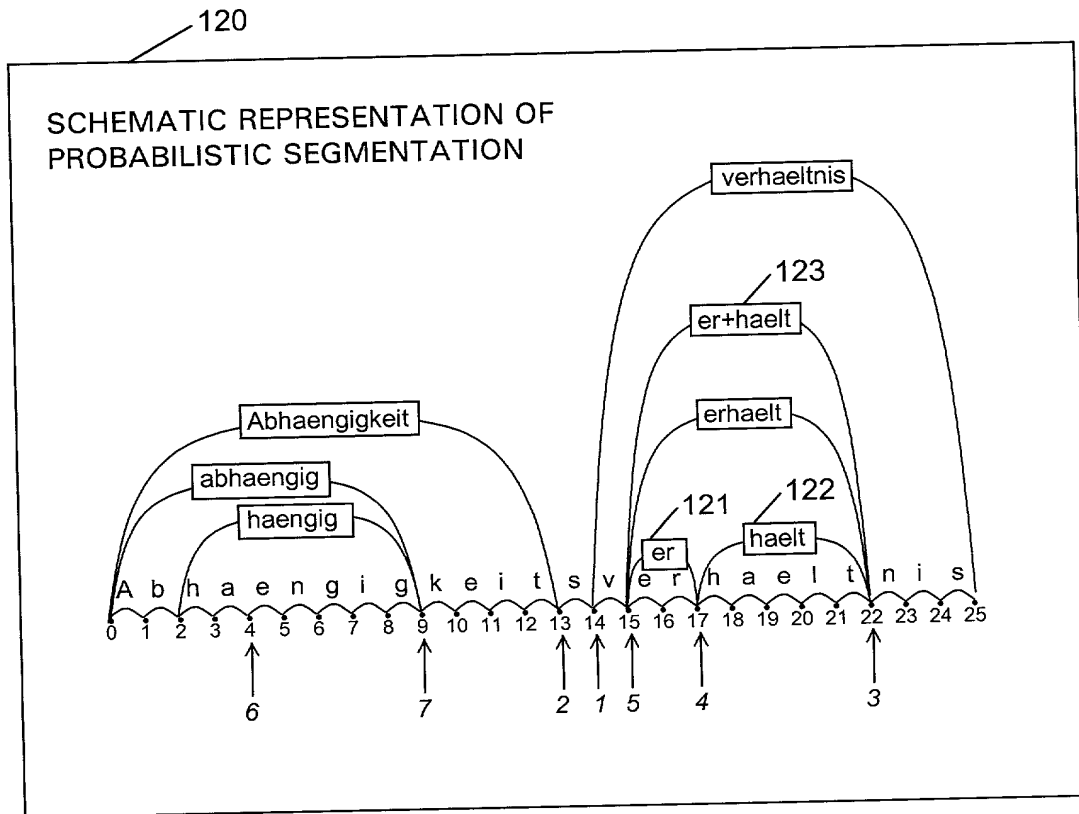


FIG. 4

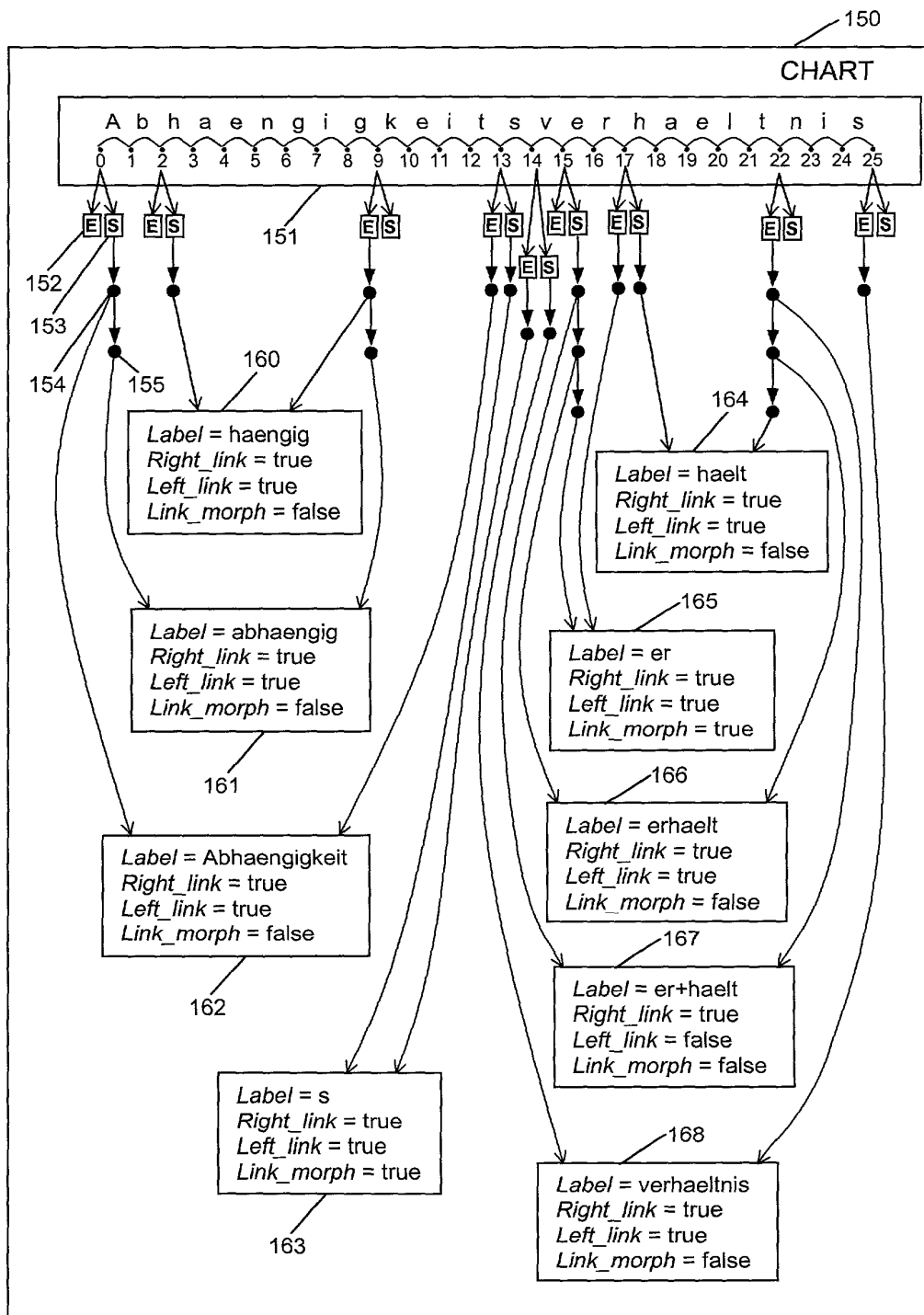


FIG. 5

Breakpoint 1 is at vertex 14 (score = 31845):  
 Test(1) = 'Abhaengigkeits' [0, 14]  
 Test(2) = 'verhaeltnis' [14, 25] -- FOUND: verhaeltnis  
 Pending Insertion: [14, 25]: verhaeltnis <+LL, +RL> -- COMPLETED  
 Inspecting Leftward Edge: [13, 14]: s <+LL, +RL>  
 -- PROPAGATED (as s + verhaeltnis from 13 to 25)  
 Pending Insertion: [13, 25]: s + verhaeltnis <-LL, +RL> -- COMPLETED

Breakpoint 2 is at vertex 13 (score = 3017):  
 Test(1) = 'Abhaengigkeits' [0, 13] -- FOUND: Abhaengigkeits  
 Pending Insertion: [0, 13]: Abhaengigkeits <+LL, +RL> -- COMPLETED  
 Inspecting Rightward Edge: [13, 14]: s <+LL, +RL>  
 -- PROPAGATED (as 'Abhaengigkeits + s' from 0 to 14)  
 Pending Insertion: [0, 14]: Abhaengigkeits + s <+LL, -RL> -- COMPLETED  
 Inspecting Rightward Edge: [14, 25]: verhaeltnis <+LL, +RL>  
 -- PROPAGATED (as 'Abhaengigkeits + s + verhaeltnis' from 0 to 25)

-- SUCCEEDED: Abhaengigkeits + s + verhaeltnis  
 (3 lexicon accesses required [0.93%]); BP = 2

A → Abhaengigkeitsverhaeltnis  
 .....e.....  
 .....n.....  
 .....e.....  
 .....s.....  
 .....e.....  
 .....er.....  
 .....e.....  
 .....n.....  
 .....verhaeltnis  
 .....sverhaeltnis  
 abhaengigkeits.....  
 abhaengigkeits.....  
 B → 1234567890123456789012345

E Chart contains 12 edges  
 [ 4, 5]: e [#0]: <+LL, +RL>  
 [ 5, 6]: n [#1]: <+LL, +RL>  
 [10, 11]: e [#2]: <+LL, +RL>  
 [13, 14]: s [#3]: <+LL, +RL>  
 [15, 16]: e [#4]: <+LL, +RL>  
 [15, 17]: er [#5]: <+LL, +RL>  
 [19, 20]: e [#6]: <+LL, +RL>  
 [22, 23]: n [#7]: <+LL, +RL>  
 [14, 25]: verhaeltnis [#8]: <+LL, +RL>  
 [13, 25]: s + verhaeltnis [#9]: <-LL, +RL>  
 [ 0, 13]: Abhaengigkeits [#10]: <+LL, +RL>  
 [ 0, 14]: Abhaengigkeits + s [#11]: <+LL, -RL>

D

FIG. 6

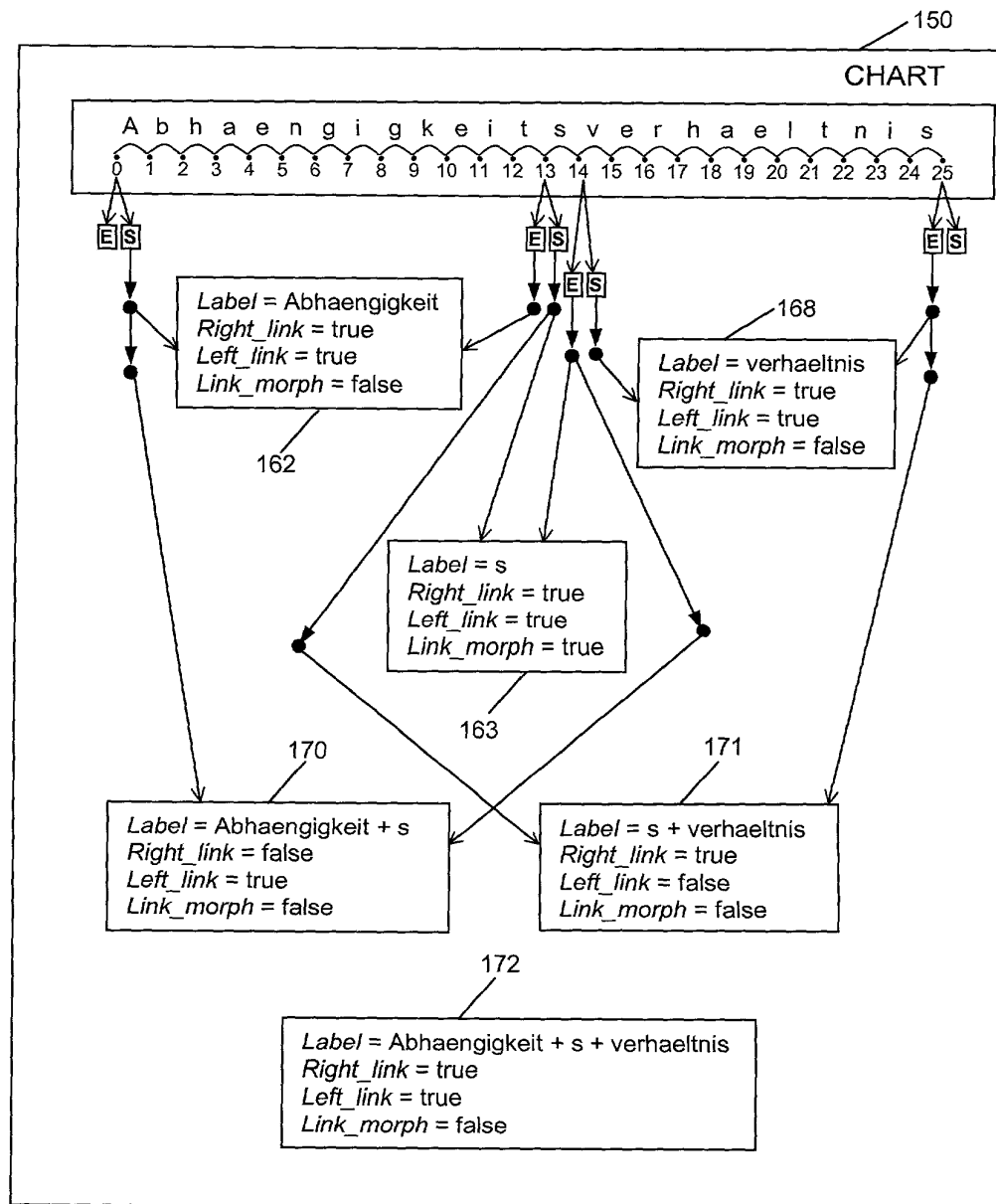


FIG. 7

APPLN. FILING DATE: OCTOBER 18, 2001

TITLE: METHOD AND APPARATUS FOR EFFICIENT  
SEGMENTATION OF COMPOUND WORDS USING  
PROBABILISTIC BREAKPOINT TRAVERSAL

INVENTOR(S): ANDREW WILLIAM MACKIE

ATTORNEY DOCKET NO: 004968-056

SHEET 8 of 22

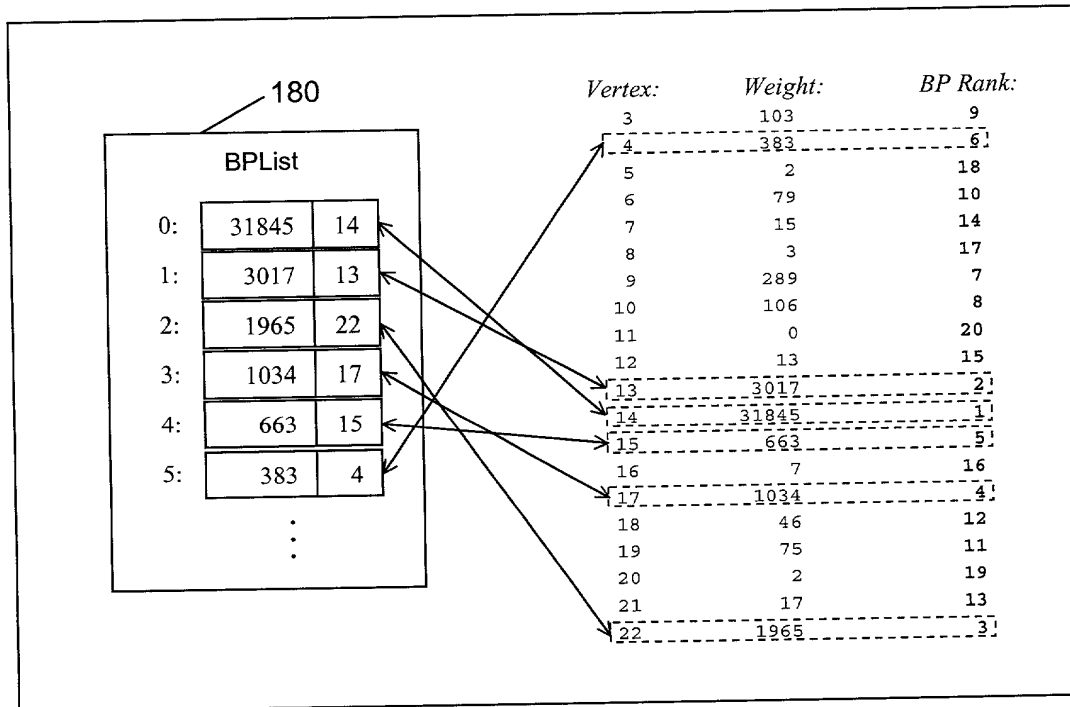


FIG. 8



FAILED: Geschwerkschaftsorganisation  
 Best guess is: {Gesch} Werk + schaft + s + Organisation  
 (116 lexicon accesses required (28.64%)); BP = 18

Geschwerkschaftsorganisation	Chart contains 32 edges
.....werk .....	[ 5, 9]: Werk [#2552]: <+LL, +RL>
.....werks .....	[ 5, 10]: Werk + s [#2553]: <+LL, -RL>
.....werks .....	[ 5, 10]: Werks [#2554]: <+LL, +RL>
.....schaft .....	[ 9, 15]: schaft [#2555]: <+LL, +RL>
.....schafts .....	[ 9, 16]: schaft + s [#2556]: <+LL, -RL>
.....werkschafts .....	[ 5, 16]: Werk + schaft + s [#2557]: <+LL, -RL>
.....werkschaft .....	[ 5, 15]: Werk + schaft [#2558]: <+LL, +RL>
.....organisation .....	[16, 28]: Organisation [#2560]: <+LL, +RL>
.....sorganisation .....	[15, 28]: s + Organisation [#2561]: <-LL, +RL>
.....schaftsorganisation .....	[ 9, 28]: schaft + s + Organisation [#2562]: <+LL, +RL>
.....werkschaftsorganisation .....	[ 5, 28]: Werk + schaft + s + Organisation [#2563]: <+LL, +RL>
.....gani .....	[18, 22]: Gani [#2565]: <+LL, +RL>
.....ganis .....	[18, 23]: Gani + s [#2566]: <+LL, -RL>
.....haft .....	[11, 15]: Haft [#2567]: <+LL, +RL>
.....hafts .....	[11, 16]: Haft + s [#2568]: <+LL, -RL>
.....haftsorganisation .....	[11, 28]: Haft + s + Organisation [#2569]: <+LL, +RL>
.....anis .....	[19, 23]: Anis [#2570]: <+LL, +RL>
.....organ .....	[16, 21]: Organ [#2571]: <+LL, +RL>
.....sorgan .....	[15, 21]: s + Organ [#2572]: <-LL, +RL>
.....schaftsorgan .....	[ 9, 21]: schaft + s + Organ [#2573]: <+LL, +RL>
.....werkschaftsorgan .....	[ 5, 21]: Werk + schaft + s + Organ [#2574]: <+LL, +RL>
.....haftsorgan .....	[11, 21]: Haft + s + Organ [#2576]: <+LL, +RL>
.....schwer .....	[ 2, 8]: schwer [#2577]: <+LL, +RL>
.....eschwer .....	[ 1, 8]: e + schwer [#2578]: <-LL, +RL>

1234567890123456789012345678

FIG. 9

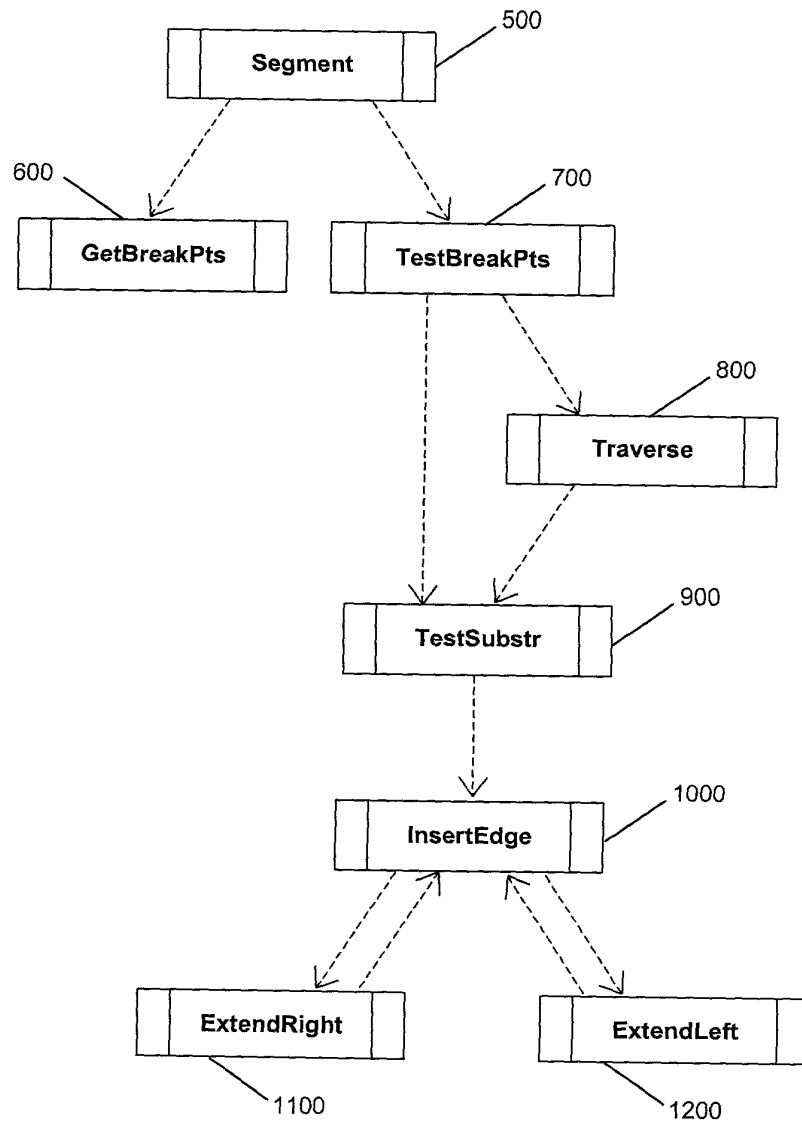


FIG. 10

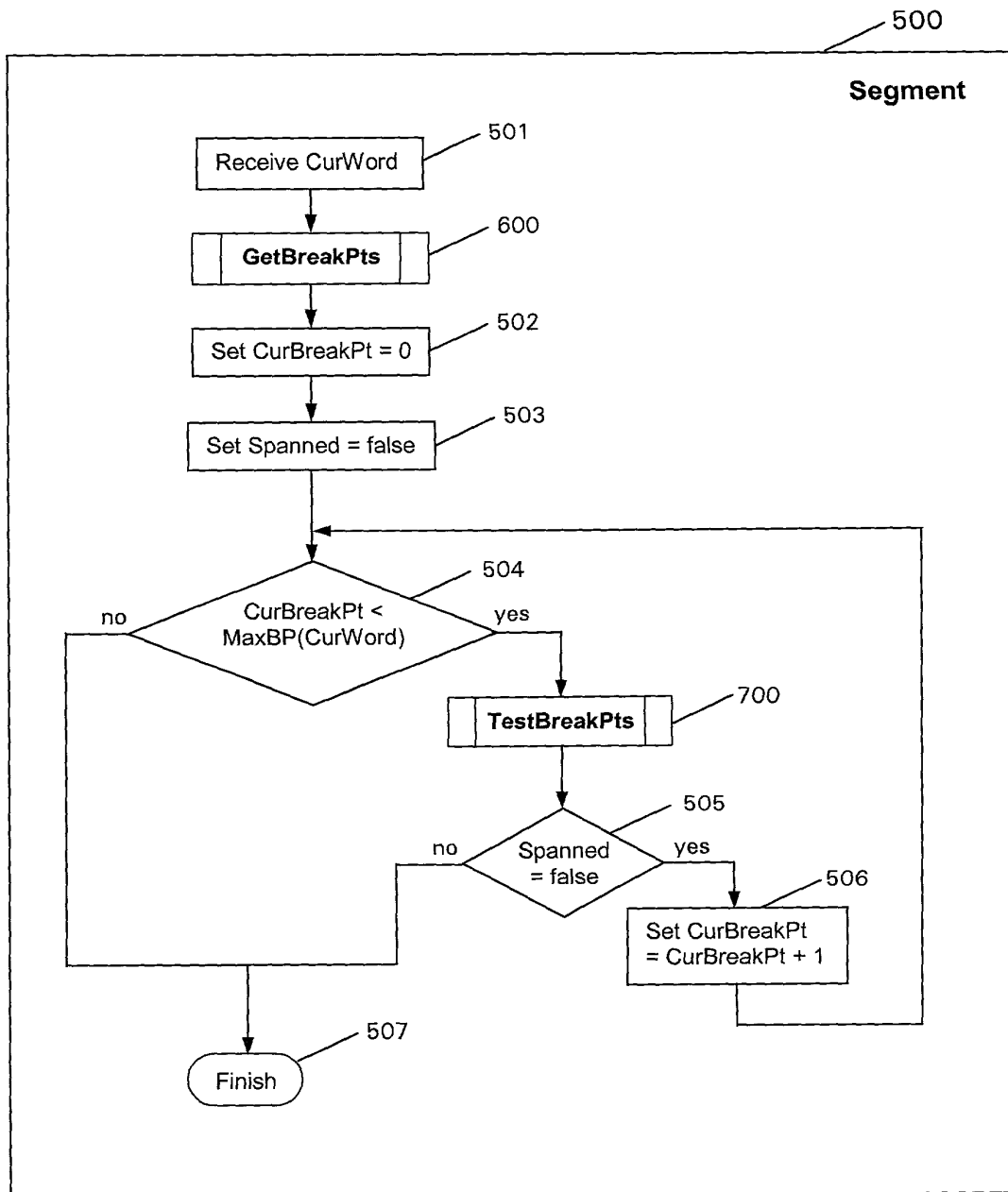


FIG. 11

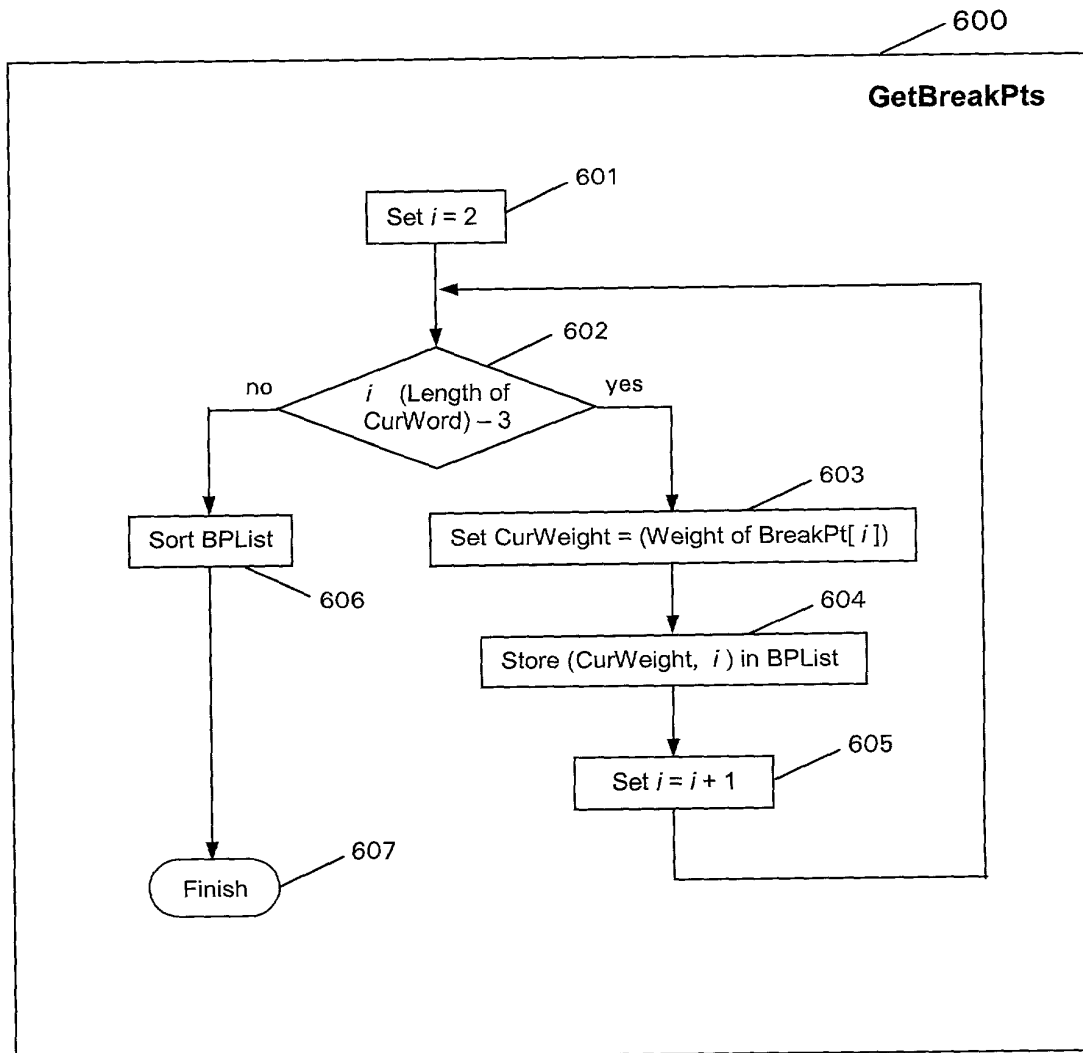


FIG. 12

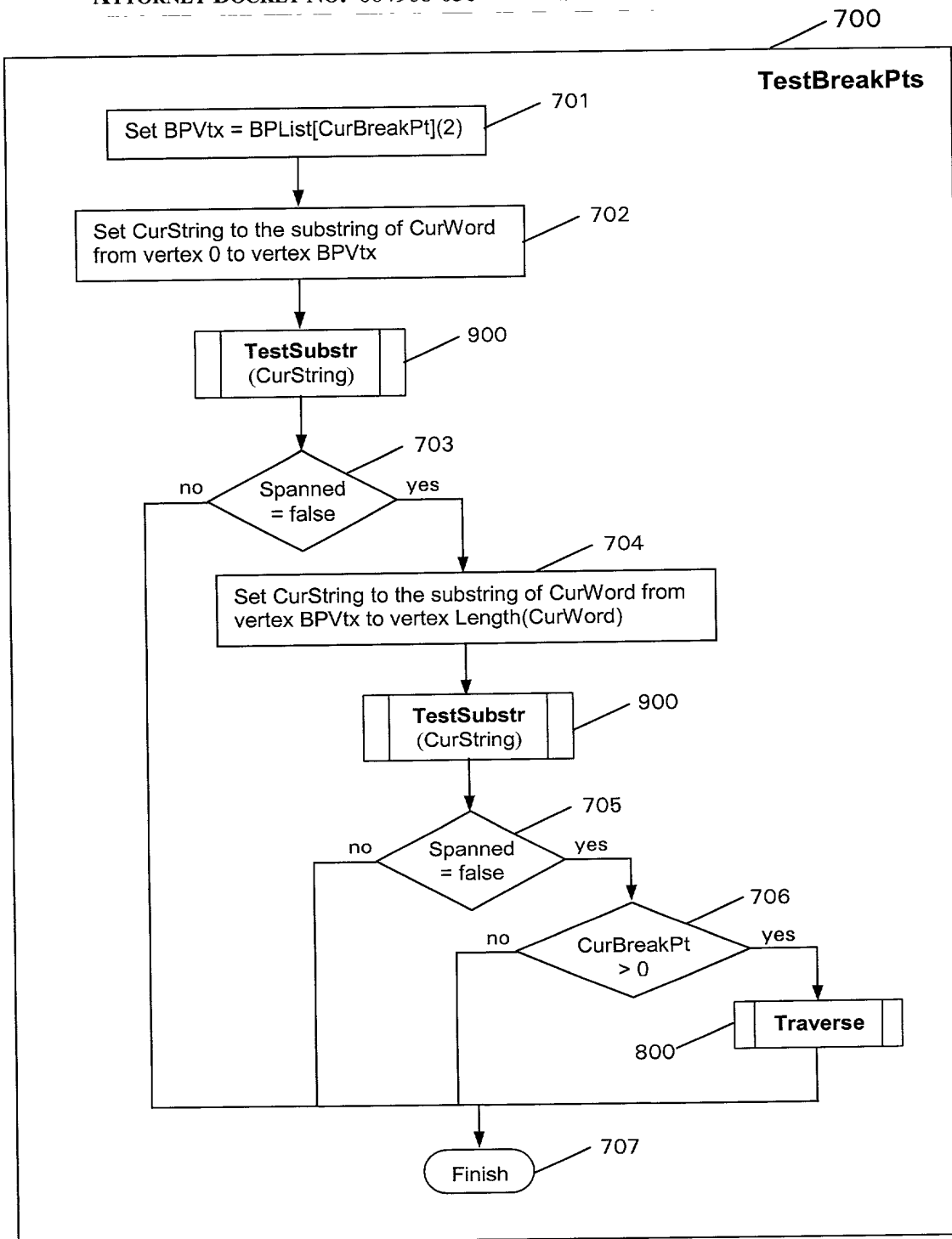


FIG. 13

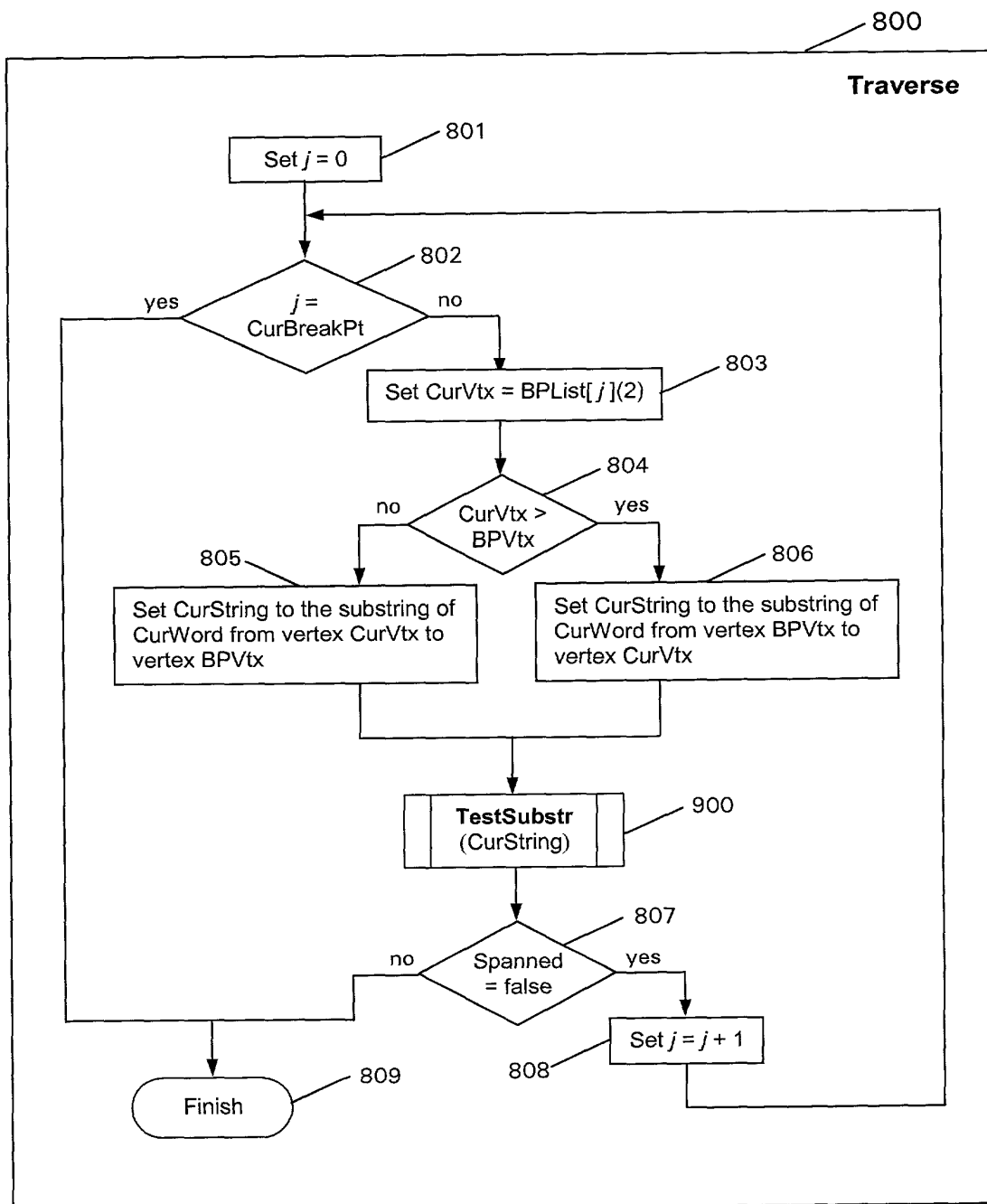


FIG. 14

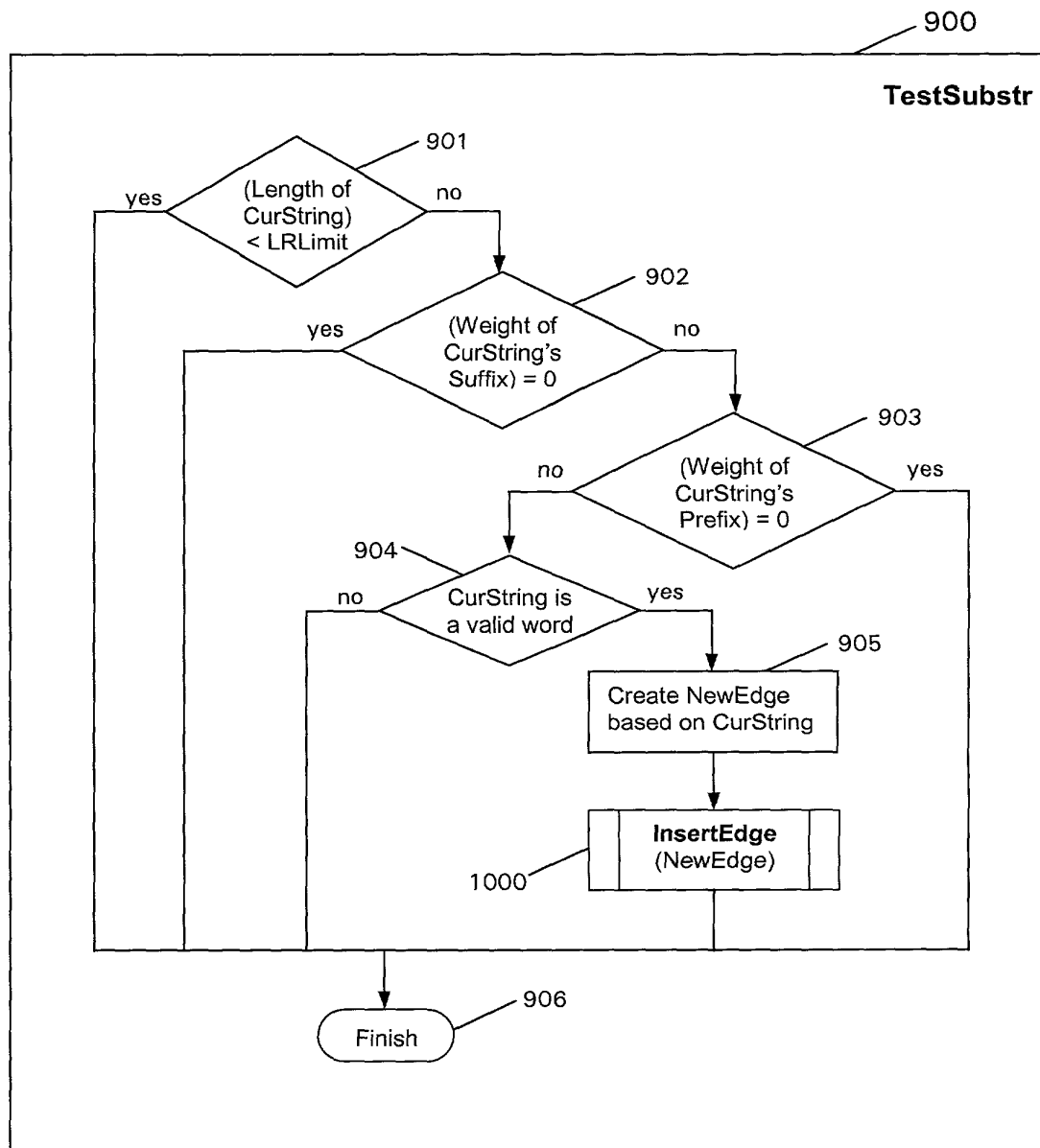


FIG. 15

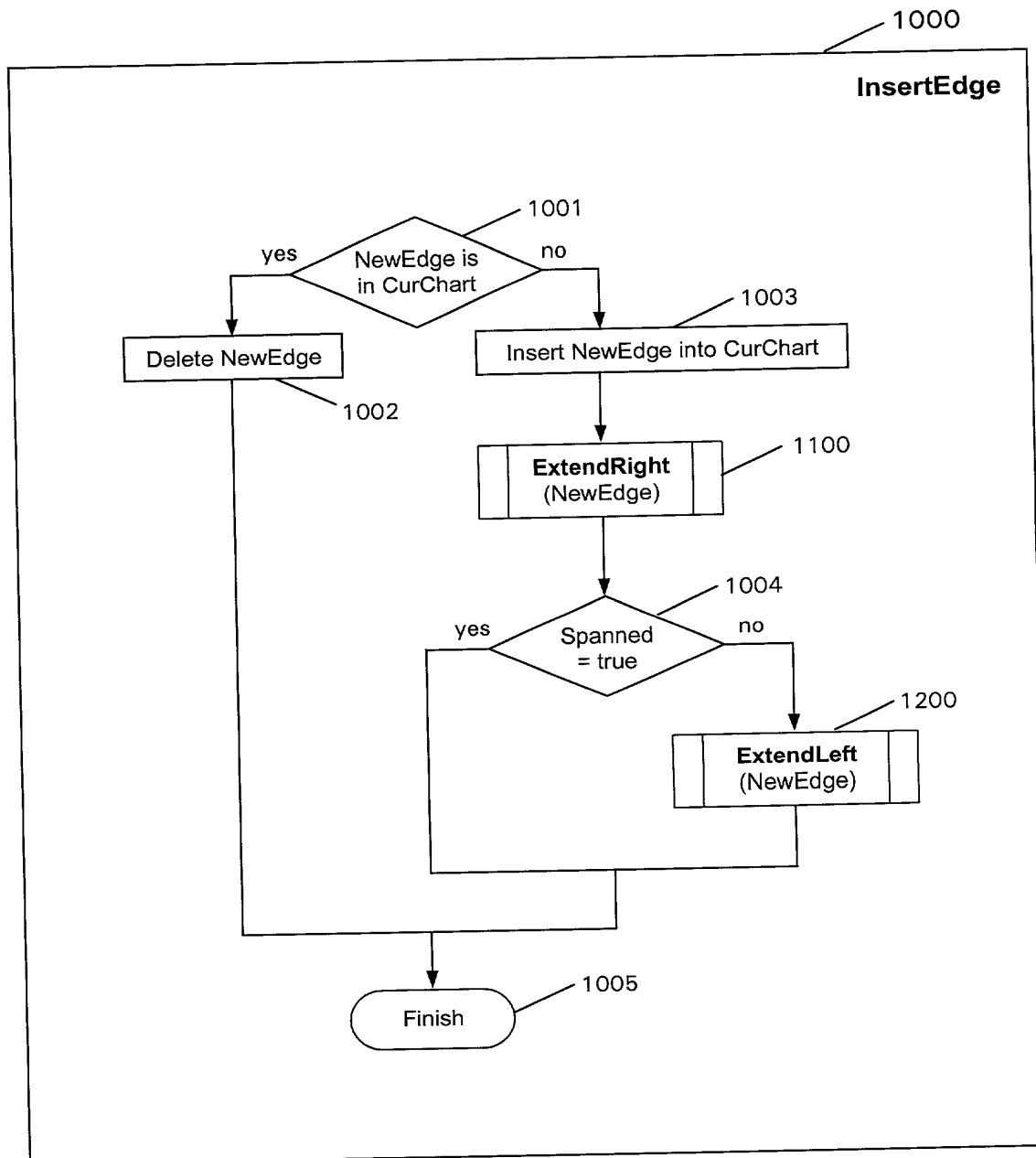


FIG. 16



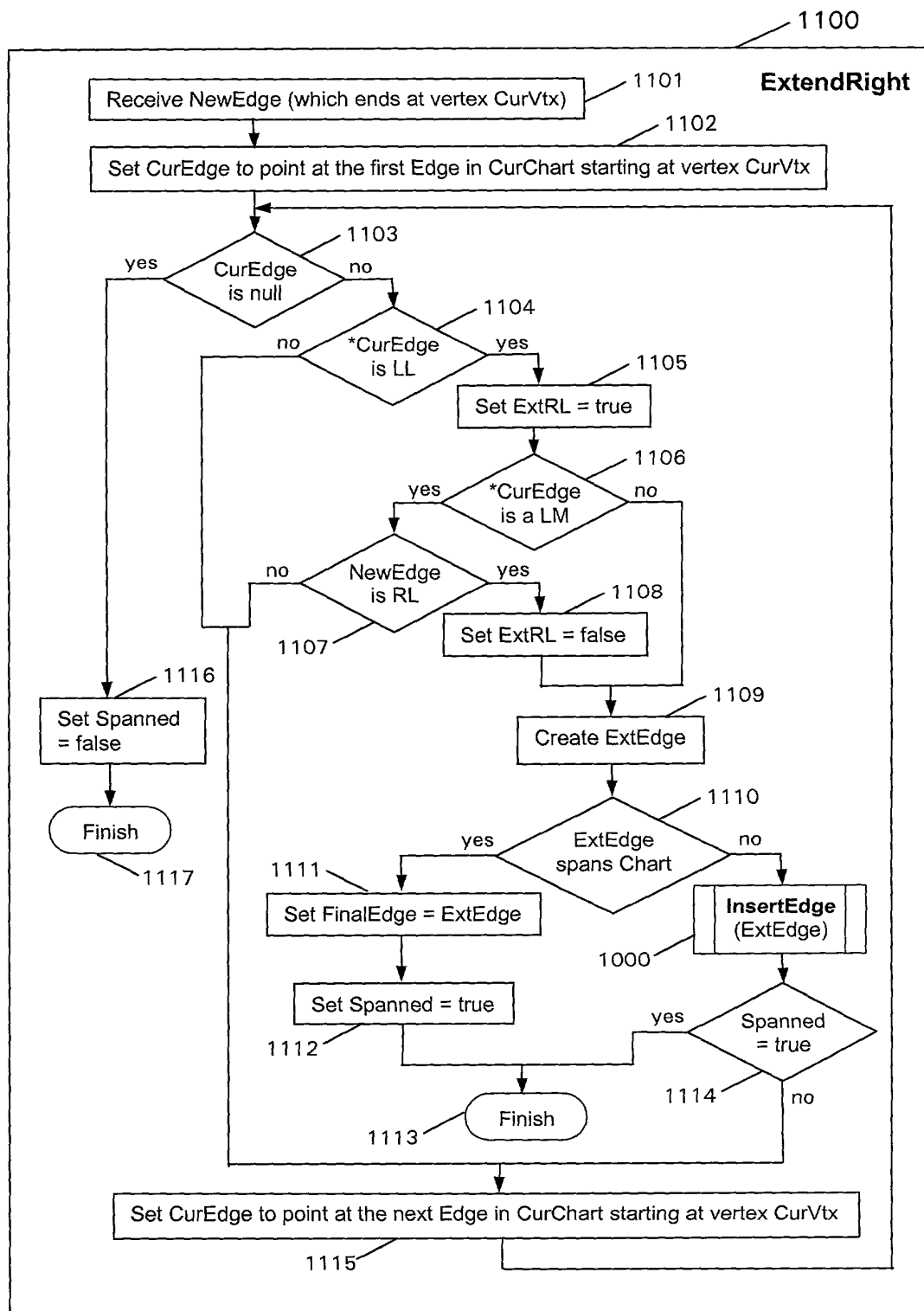


FIG. 17

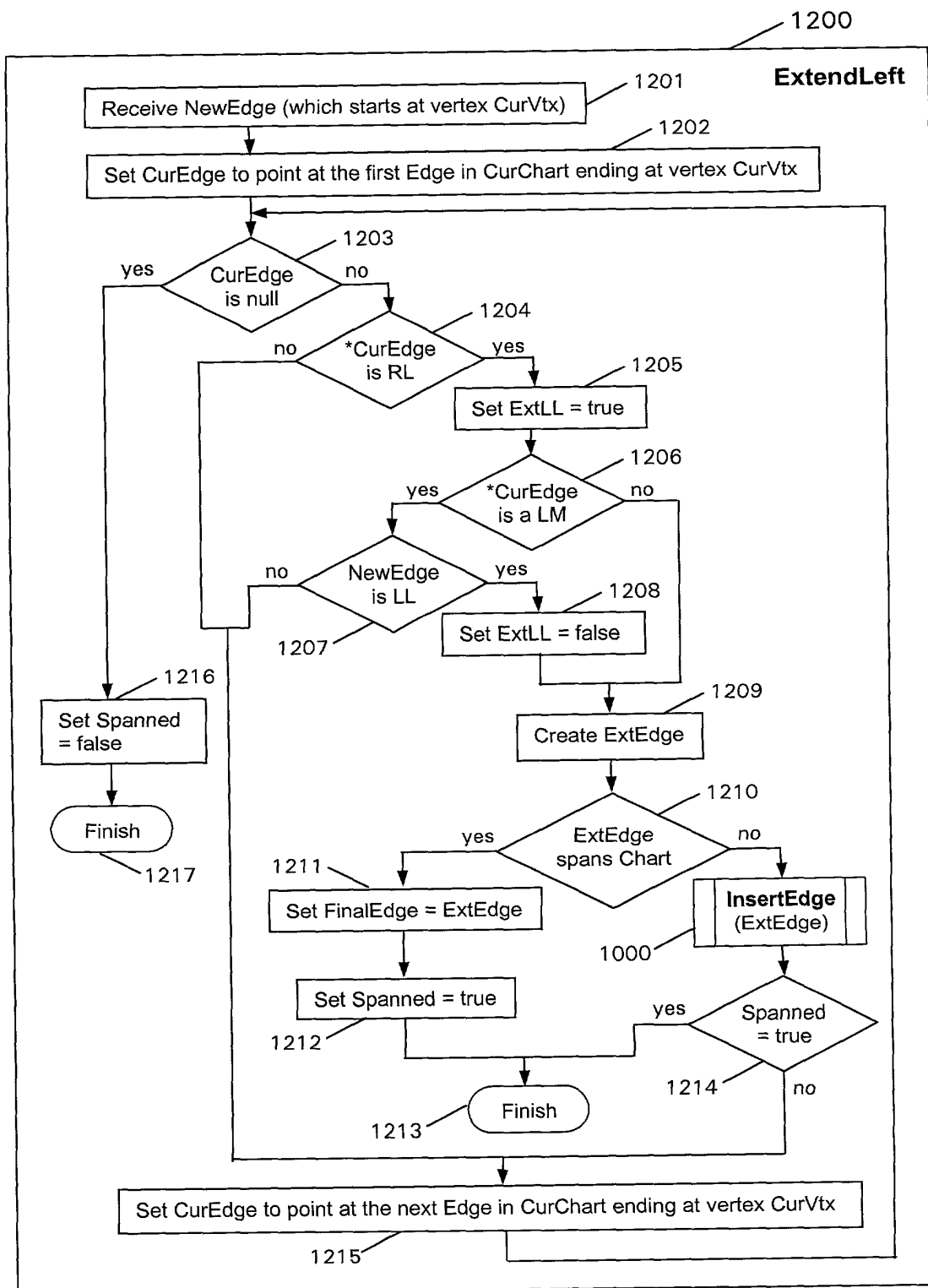


FIG. 18

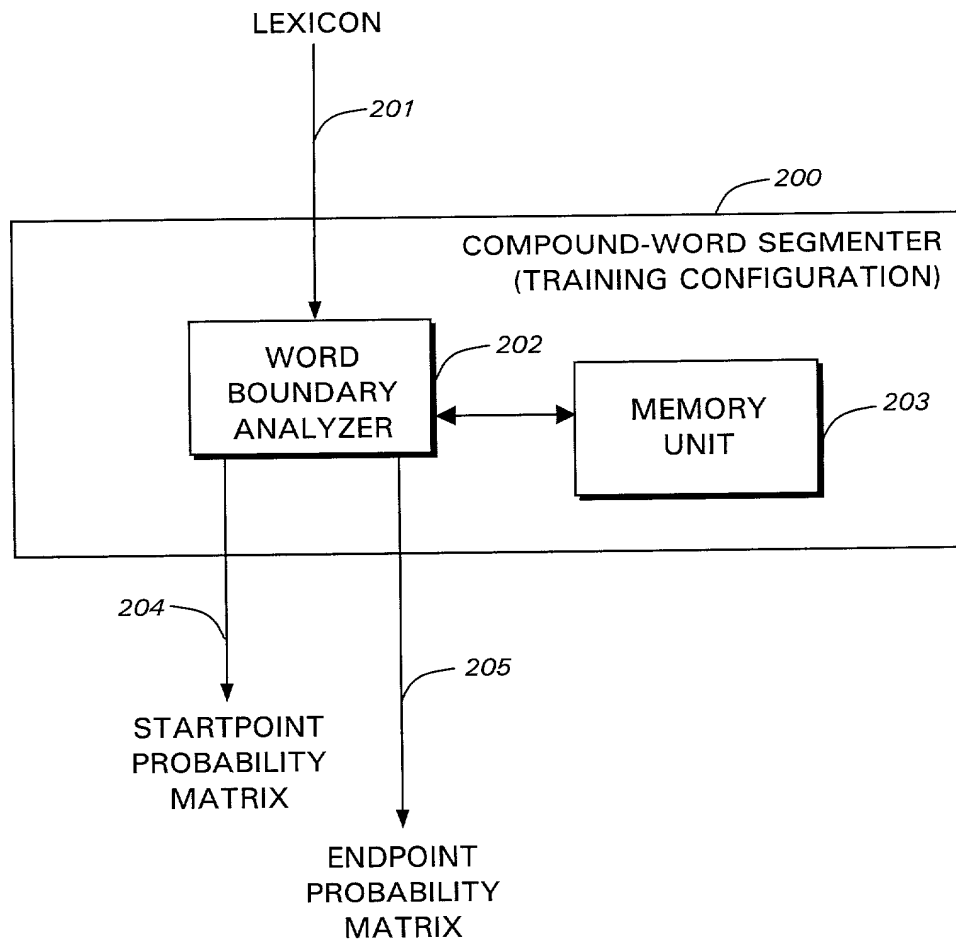


FIG. 19

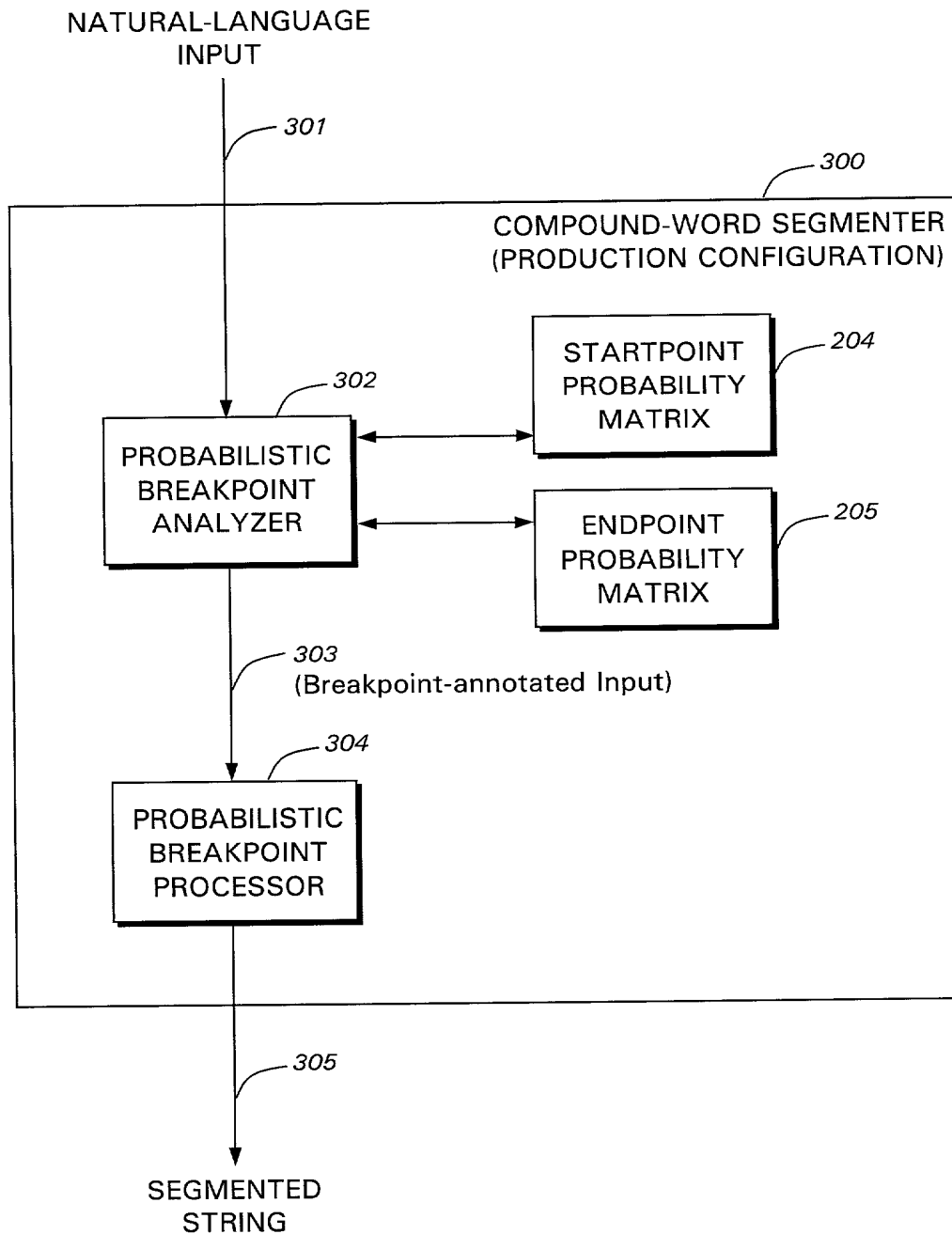


FIG. 20

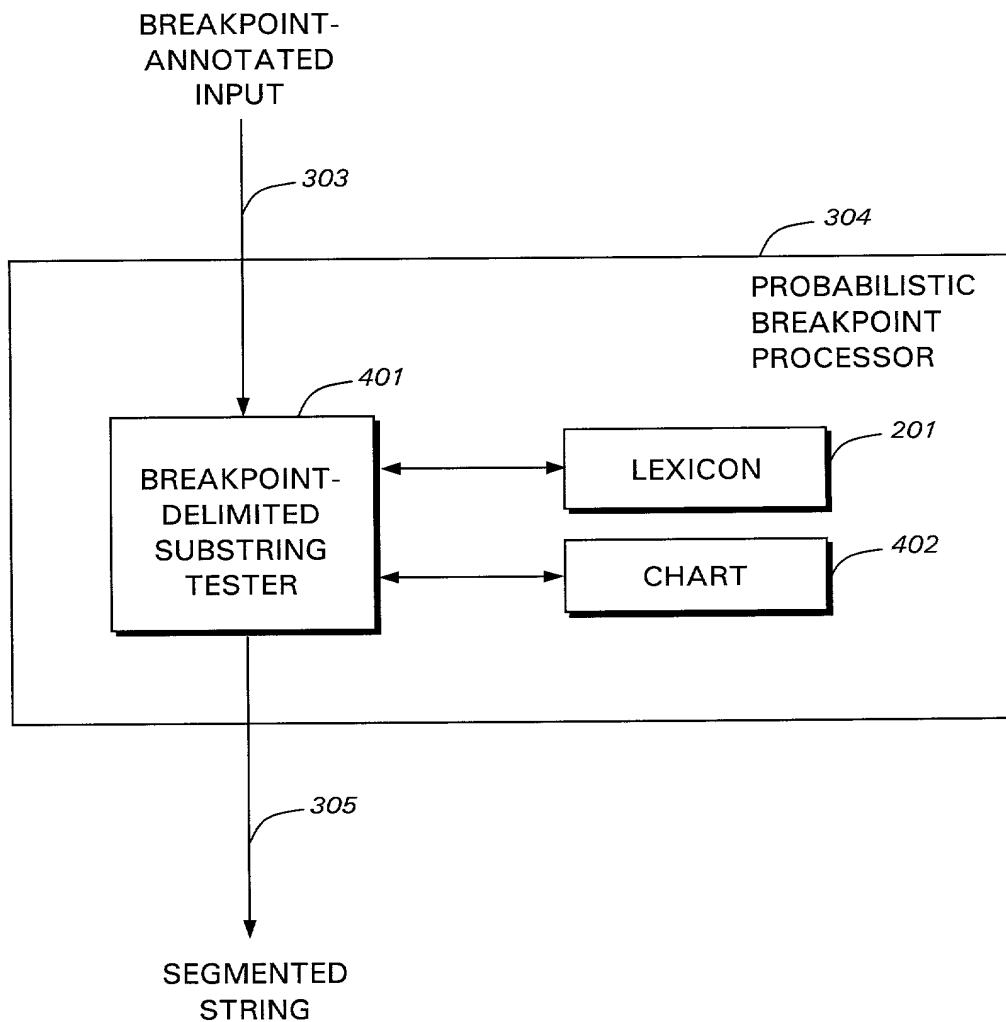


FIG. 21

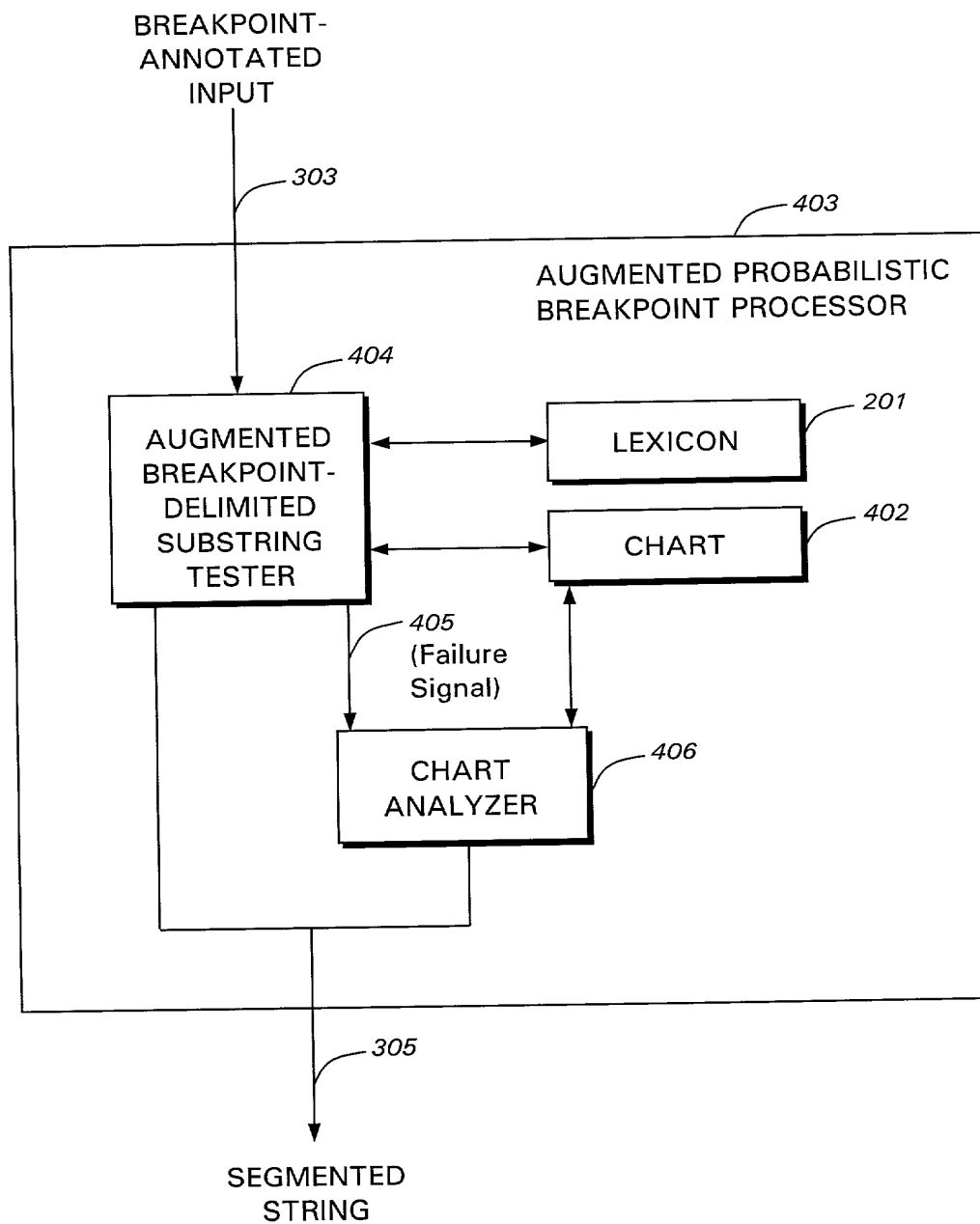


FIG. 22